

WHAT IS CLAIMED IS:

1. An illegal access discriminating apparatus comprising:

5 A a storing unit for ~~inputting~~ and storing ID information and organic information based on an authentication demand which a service providing system received from the user;

10 a comparing and collating unit for comparing and collating the inputted ID information and organic information with ID information and organic information <sup>stored</sup> which ~~were inputted~~ in the past; and

15 A a control unit for discriminating an authentication demand by an illegal access person on the basis of an output of said comparing and collating unit.

2. An apparatus according to claim 1, wherein said storing unit comprises:

20 an inputting and storing unit for inputting and temporarily storing the ID information and organic information based on the authentication demand which said service providing system received ~~in the past~~ from the user; and

25 A a use information storing unit for storing ID information and organic information based on the authentication demand which the service providing system received in the past from the user.

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3. An apparatus according to claim 1, wherein said control unit determines that there is the authentication demand by the illegal access person in the case where the ID information does not coincide and the organic information coincides or the case where the ID information coincides and the organic information does not coincide on the basis of the output of said comparing and collating unit.

10 4. An apparatus according to claim 1, wherein said storing unit stores a telephone number serving as a transmitting source <sup>or</sup> a terminal position such as a network address, and an input time in correspondence to the ID information and organic information which were inputted in the past, and

15 said control unit determines that there is the authentication demand by the illegal access person in the case where the comparison result by said comparing and collating unit between the inputted ID information and the past ID information inputted from a same terminal position within a predetermined time indicates dissidence.

25 5. An apparatus according to claim 1, wherein said control unit discriminates whether the past ID information has a serial number for the inputted ID information or not and, when it is determined that the

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past ID information has the serial number, said control unit determines that there is the authentication demand by the illegal access person at a predetermined designated number of times.

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6. An apparatus according to claim 1, wherein when the inputted organic information and the organic information which was inputted in the past coincide, said control unit detects a combination in which the organic information coincides and the ID information differs, and when the number of said combinations reaches a predetermined number, said control unit determines that there is the authentication demand by the illegal access person.

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7. An apparatus according to claim 1, wherein said comparing and collating unit comprises:

an ID information comparing unit for comparing the inputted ID information and the ID information which was inputted in the past and generating a signal indicative of coincidence or dissidence; and

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an organic information collating unit for comparing the inputted organic information and the organic information which was inputted in the past, generating a signal indicative of coincidence of the organic information in the case where a value of a predetermined coincidence degree or more is obtained,

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and generating a signal indicative of dissidence of the organic information in the case where a value less than said predetermined coincidence degree is obtained.

5 8. An apparatus according to claim 1, further comprising a timer unit for measuring a time, and wherein the ID information and organic information which were inputted in the past after the elapse of a predetermined time from the storage on the basis of  
10 time information measured by said timer unit are erased and excluded from targets of the comparison and collation.

15 9. An apparatus according to claim 1, wherein said storing unit stores a telephone number  
A serving as a transmitting source <sup>or</sup> ~~and~~ a terminal position such as a network address or the like together with the ID information and organic information which were inputted in the past, and  
20 said comparing and collating unit compares and collates the inputted ID information and organic information with the ID information and organic information which were inputted in the past from a same terminal position.

25 10. An apparatus according to claim 1, further comprising:

an authentication demand terminal address  
recording unit for recording the number of times of  
authentication demand every terminal address; and

5 a same terminal access detecting unit for  
detecting that the authentication demand of a  
predetermined number or more has been performed within  
a predetermined time with reference to said  
authentication demand terminal address, activating said  
comparing and collating unit and said control unit, and  
10 allowing an illegal access to be discriminated.

11. An apparatus according to claim 1, wherein when it  
is determined that there is the authentication demand  
by the illegal access person, said control unit  
15 automatically notifies an administrator of the service  
providing system of a result of said discrimination.

12. An illegal access discriminating method  
comprising:

20 a storing step of inputting and storing ID  
information and organic information based on an  
authentication demand which a service providing system  
received from the user;

a comparing and collating step of comparing and  
25 collating the inputted ID information and organic  
information with ID information and organic information  
which were inputted in the past; and

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a control step of discriminating an authentication demand by an illegal access person on the basis of an output in said comparing and collating step.

- 5 13. A method according to claim 12, wherein said storing step comprises:

an inputting and storing step of inputting and temporarily storing the ID information and organic information based on the authentication demand which  
10 *A* said service providing system received ~~in the past~~ from the user; and

a use information storing step of storing ID information and organic information based on the authentication demand which the service providing  
15 system received in the past from the user.

14. A method according to claim 12, wherein in said control step, it is determined that there is the authentication demand by the illegal access person in  
20 the case where the ID information does not coincide and the organic information coincides or the case where the ID information coincides and the organic information does not coincide on the basis of the output in said comparing and collating step.

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15. A method according to claim 12, wherein in said storing step, a telephone number serving

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A as a transmitting source<sup>or</sup> a terminal position such as a network address, and an input time in correspondence to the ID information and organic information which were inputted in the past are stored, and

5 in said control step, it is determined that there is the authentication demand by the illegal access person in the case where the comparison result in said comparing and collating step between the inputted ID information and the past ID information inputted from a  
10 same terminal position within a predetermined time indicates dissidence.

16. A method according to claim 12, wherein in said control step, whether the past ID information has a  
15 serial number for the inputted ID information or not is discriminated and, when it is determined that the past ID information has the serial number, it is determined that there is the authentication demand by the illegal access person at a predetermined designated number of  
20 times.

17. A method according to claim 12, wherein in said control step, when the inputted organic information and the organic information which was inputted in the past  
25 coincide, a combination in which the organic information coincides and the ID information differs is detected, and when the number of said combinations

reaches a predetermined number, it is determined that there is the authentication demand by the illegal access person.

- 5 18. A method according to claim 12, wherein said comparing and collating step comprises:

an ID information comparing step of comparing the inputted ID information and the ID information which was inputted in the past and generating a signal  
10 indicative of coincidence or dissidence; and

an organic information collating step of comparing the inputted organic information and the organic information which was inputted in the past, generating a signal indicative of coincidence of the organic  
15 information in the case where a value of a predetermined coincidence degree or more is obtained, and generating a signal indicative of dissidence of the organic information in the case where a value less than said predetermined coincidence degree is obtained.

- 20 19. A method according to claim 12, further comprising a timer step of measuring a time, and wherein the ID information and organic information which were inputted in the past after the elapse of a predetermined time  
25 from the storage on the basis of time information measured in said timer step are erased and excluded from targets of the comparison and collation.



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20. A method according to claim 12, wherein  
in said storing step, a telephone number serving  
as a transmitting source <sup>c</sup> and a terminal position such  
A as a network address or the like are stored together  
5 with the ID information and organic information which  
were inputted in the past, and

in said comparing and collating step, the inputted  
ID information and organic information with the ID  
information and organic information which were inputted  
10 in the past from a same terminal position are compared  
and collated.

21. A method according to claim 12, further  
comprising:

15 an authentication demand terminal address  
recording step of recording the number of times of  
authentication demand every terminal address; and

a same terminal access detecting step of detecting  
that the authentication demand of a predetermined  
20 number or more has been performed within a  
predetermined time with reference to said  
authentication demand terminal address, activating said  
comparing and collating step and said control step, and  
allowing an illegal access to be discriminated.

25 22. A method according to claim 12, wherein in said  
control step, when it is determined that there is the

authentication demand by the illegal access person, a result of said discrimination is automatically notified to an administrator of the service providing system.